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| 7590 01/11/2006 | | | EXAMINER | |
| Killworth, Gottman, Hagan & Schaeff, L.L.P. | | | ZHENG, LOIS L | |
| Suite 500 | | | ART UNIT | PAPER NUMBER |
| One Dayton Centre Dayton, OH 45402-2023 | | | | FAFER NOMBER |
| | | | 1742 | |

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | |
|--|---|--|---|
| | 10/625,886 | PHELPS ET AL. | |
| Office Action Summary | Examiner | Art Unit | _ |
| <u>-</u> | Lois Zheng | 1742 | |
| The MAILING DATE of this communication ap Period for Reply | ppears on the cover sheet with | the correspondence address | _ |
| A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a repl d will apply and will expire SIX (6) MONTH tte, cause the application to become ABAN | ATION. y be timely filed IS from the mailing date of this communication. IDONED (35 U.S.C. § 133). | |
| Status | | | |
| 1) Responsive to communication(s) filed on 27 | October 2005. | | |
| 2a) ☐ This action is FINAL . 2b) ☑ Th | is action is non-final. | | |
| 3) Since this application is in condition for allow | ance except for formal matter | s, prosecution as to the merits is | |
| closed in accordance with the practice under | Ex parte Quayle, 1935 C.D. 1 | 1, 453 O.G. 213. | |
| Disposition of Claims | | | |
| 4) ⊠ Claim(s) <u>1-139</u> is/are pending in the applicating 4a) Of the above claim(s) <u>12-34,39,40,48-50,</u> 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-11,35-38,41-47,51-55 and 137</u> is/ 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and | <u>56-136,138 and 139</u> is/are wit are rejected. | hdrawn from consideration. | |
| Application Papers | | | |
| 9) The specification is objected to by the Examir | ner. | | |
| 10) The drawing(s) filed on is/are: a) □ ac | ccepted or b) objected to by | the Examiner. | |
| Applicant may not request that any objection to th | e drawing(s) be held in abeyance | e. See 37 CFR 1.85(a). | |
| Replacement drawing sheet(s) including the corre | | • | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list | nts have been received. nts have been received in Appiority documents have been re au (PCT Rule 17.2(a)). | olication No eceived in this National Stage | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date 10/12/05, 7/23/03 | Paper No(s)/I | nmary (PTO-413) Mail Date rmal Patent Application (PTO-152) | |

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of invention group I, claims 1-55 and 137, in the reply filed on 27 October 2005 is acknowledged.

- 2. Claims 56-136 and 138-139 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention groups II and III, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 27 October 2005.
- 3. Applicant's election with traverse of inorganic valence stabilizer, cationic solubility control agents, and active UV blocker in the reply filed on 27 October 2005 is acknowledged. The traversal is on the ground(s) that upon allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim. This is not found persuasive because no generic claims are found allowable at this time.

The requirement is still deemed proper and is therefore made FINAL.

- 4. Claims 12-34, 39-40 and 48-50 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 27 October 2005.
- 5. The examiner would like to thank the applicant for pointing out the typographical error in the previous Office Action for Election/Restriction. The examiner agrees that

Group III, claims 91-136 and 139, is drawn to a method of applying a corrosion-inhibiting seal.

6. A telephone call was made to the office of Patricia L Prior on 6 January 2006 to notify the applicant that claims 30-34, even though was not included in the original election of species, are withdrawn since they depend on nonelected species(i.e. organic valence stabilizer).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1, 4-11, 35-38, 51-53, 55 and 137 are rejected under 35 U.S.C. 102(b) as being anticipated by PCT publication WO 98/48075. Tadokoro et al. US 6,200,672 B1(Tadokoro) is the national stage entry of the PCT publication document WO 98/48075, which is in Japanese. Therefore, the examiner will use the teachings of Tadokoro for the rejection of the instant claims in this Office Action.

Tadokoro teaches an aqueous metal surface treatment fluid comprising a rare earth element such as tetravalent cerium(col. 5 lines 6-9) and oxyacid anions such as phosphate, tungstate, vanadate anions, wherein the rare earth metal elements and the

oxyacid anions form oxyacid compounds(col. 9 lines 28-33). Tadokoro further teaches a rare earth metal complex comprising rare earth elements such as tetravalent cerium and an inorganic compounds such as phosphates, nitrates and sulfates(col. 5 lines 27-31).

Regarding instant claims 1 and 9-11, the tetravalent cerium of Tadokoro reads on the claimed rare earth element and the phosphate, tungstate, vanadate, sulfate and nitrate of Tadokoro read on the claimed inorganic valence stabilizer. The oxyacid compound or the rare earth metal complex of Tadokoro reads on the rare earth/valence stabilizer complex as claimed.

Regarding instant claim 137, Tadokoro further teaches that the solubility of the rare earth metal complex is no greater than 0.01 mol/l(col. 5 lines 36-38). Since about 25°C reads on room temperature and 760Torr is atmospheric pressure, the examiner asserts that the solubility as taught by Tadokoro reads on the limitation of the rare earth/valence stabilizer complex being sparingly soluble since the solubility as taught by Tadokoro significantly overlaps the solubility of about 5 x 10⁻¹ and about 1 x 10⁻⁵ mol/l as recited in instant claim 2 and the solubility of about 5 x 10⁻² and about 5 x 10⁻⁵ mol/l as recited in instant claim 3.

Regarding instant claim 4, since Tadokoro teaches the claimed rare earth/valence stabilizer, the electrostatic barrier layer around the rare earth/valence stabilizer complex is inherent present as claimed.

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Regarding instant claim 5, since Tadokoro teaches the claimed rare earth/valence stabilizer complex, the function of the rare earth/valence stabilizer complex as an ion exchange agent towards corrosive ions is inherent.

Regarding instant claim 6, Tadokoro teaches the claimed phosphate compound ad claimed.

Regarding instant claims 7-8, Tadokoro teaches vanadate anion and cerium forming an oxyacid compound. Therefore, the vanadium ion reads on the claimed additional ion. Since the oxyacid compound of Tadokoro reads on the claimed rare earth/valence stabilizer, the examiner asserts that the rare earth/valence stabilizer as taught by Tadokoro inherently has a central cavity containing cerium as claimed.

Regarding instant claims 35-38, Tadokoro teaches the presence of cerium ions which read on the claimed cationic solubility control agent. Tadokoro further teaches the presence of calcium, zinc, lanthanum, hydrogen, zirconium and titanium ions(col. 10 lines 9-18) which also read on the claimed cationic solubility control agent.

Regarding instant claims 51-53 and 55, Tadokoro further teaches the addition of phosphoric acid in the coating composition(col. 7 lines 45-55). Therefore, the phosphoric acid as taught by Tadokoro reads on the claimed nonionic surfactant as a wetting agent and the claimed agent which prevents smudging.

9. Claims 1, 4-11, 35-38, 44-46, and 137 are rejected under 35 U.S.C. 102(b) as being anticipated by DePue et al. US 5,322,560(DePue).

DePue teaches a slightly water soluble corrosion inhibitor compound in an aqueous solution for treating aluminum flake pigment(abstract). The corrosion inhibitor

compound comprises a rare earth metal such as tetravalent cerium(col. 2 lines 55-60), a silicon salt and a metal oxo-complexes of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W(col. 2 lines 27-36, col. 3 lines 17-22).

Regarding instant claim 1, 9-11 and 137, the tetravalent cerium as taught by DePue reads on the claimed rare earth element and the oxo-complexes of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W reads on the claimed inorganic valence stabilizer. In addition, since the corrosion inhibiting compound of DePue is slightly soluble in water, it meets the limitation of "sparingly soluble in water at about 25°C and about 760Torr" as recited in instant claim 137. Therefore, the claimed rare earth/valence stabilizer complex is inherently present in the corrosion inhibiting compound of DePue.

Regarding instant claims 4-5, since DePue teaches the inherently teaches the claimed rare earth/valence stabilizer complex, the claimed electrostatic barrier layer is also inherently present around the rare earth/valence stabilizer complex of DePue as recited in instant claim 4. The rare earth/valence stabilizer complex of DePue is also inherently capable of acting as an ion exchange agent towards corrosive ions as recited in instant claim 5.

Regarding instant claim 6, DePue teaches the presence of metal oxo-complexes (i.e. oxides). DePue further teaches polymer solvents for the corrosion inhibiting compound(col. 3 lines 35-43). Therefore, DePue teaches the claimed oxide compound and the claimed polymer as recited in instant claim 6.

Regarding instant claims 7-8, since DePue teaches the claimed rare earth/valence stabilizer complex, it also inherently teaches the central cavity containing

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cerium as recited in instant claim 7. In addition, the metal oxo-complexes(i.e. valence stabilizer) as taught by DePue contains Ti, Zr, V, Cr ions, which read on the claimed additional ions as recited in instant claims 7-8.

Regarding instant claims 35-38, DePue further teaches the presence of Na ions from the metal oxo-complexes(col. 3 lines 17-22), which reads on the cationic solubility control agent as claimed. In addition, the Ce, Ti, Zr, V, Cr, W, Mo, Nb, Hf, Ta as taught by DePue also read on the claimed cationic solubility control agent.

Regarding instant claim 44, DePue teaches that the coating prepared by applying the corrosion inhibiting compound contains is colored as claimed.

Regarding instant claims 45-46, DePue further teaches a color brightener(col. 6 lines 12-28) which read on the agent for improving color-fastness.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 2-3 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadokoro.

The teachings of Tadokoro are discussed in paragraph 8 above.

Regarding instant claims 2-3, Tadokoro further teaches that the solubility of the rare earth metal complex is no greater than 0.01 mol/l(col. 5 lines 36-38). Since about

25°C reads on room temperature and 760Torr is atmospheric pressure, the examiner asserts that the solubility of no greater than 0.01 mol/l as taught by Tadokoro overlaps the solubility of about 5×10^{-1} and about 1×10^{-5} mol/l as recited in instant claim 2 and the solubility of about 5×10^{-2} and about 5×10^{-5} mol/l as recited in instant claim 3. Therefore, a prima facie case of obviousness exists. See MPEP 2144.05. The selection of claimed solubility from the solubility of Tadokoro would have been obvious to one of ordinary skill in the art since Tadokoro teaches the same utilities in its disclosed solubility range.

Regarding instant claim 54, even though Tadokoro does not explicitly teach the claimed wetting agent concentration of less than about 5g/l, one of ordinary skill in the art would have found routinely optimized the concentration of the phosphoric acid in the coating composition of Tadokoro to arrived at the claimed concentration since Tadokoro teaches the amount of phosphoric acid should not notably impair the stability of the are earth metal complex(col. 7 lines 45-55).

12. Claims 41-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadokoro in view of Eddinger et al. US 6,074,464(Eddinger).

The teachings of Tadokoro are discussed in paragraphs 8 and 11 above.

However, Tadokoro does not explicitly teach the claimed lubricity agent.

Eddinger teaches the addition of lubricant such as graphite into the phosphate conversion coating(abstract, col. 7 lines 27-36).

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Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated the lubricant such as graphite into the coating composition of Tadokoro in order to improve the lubricity of the coating layer.

13. Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tadokoro in view of Eddinger, and further in view of Gulley US 5,330,588(Gulley).

The teachings of Tadokoro in view of Eddinger are discussed in paragraph 12 above. However, Tadokoro in view of Eddinger do not explicitly teach the claimed lubricity is a soft metal selected from tin, indium, silver or combinations thereof.

Gulley teaches the use of silver in a chemisorption layer on a metal part as a lubricant in order to averts high frictional forces(col. 3 lines 52-58).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated silver as lubricant as taught by Gulley into the coating composition of Tadokoro in view of Eddinger in order to avert high frictional forces as taught by Gulley.

14. Claims 44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadokoro in view of Dattilo US 6,291,018 B1(Dattilo).

The teachings of Tadokoro are discussed in paragraphs 8 and 11 above.

However, Tadokoro does not explicitly teach an agent to improve color-fastness as claimed.

Dattilo teaches a metal surface treatment coating composition comprising color pigments such as carbon black and phthalocyanines(col. 5 lines 34-41).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated color pigments such as carbon black and phthalocyanines as taught by

Dattilo into the coating composition of Tadokoro in order to provide decorative effect to the coating formed as taught by Dattilo(col. 5 lines 34-38).

Therefore, the coating composition of Tadokoro in view of Dattilo is colored as recited in instant claim 44 and also comprises an agent that improves color-fastness as recited in instant claim 45. Color pigments such as carbon black and phthalocyanines as taught by Tadokoro in view of Dattilo also read on the claimed active UV blocker as recited in instant claims 46-47.

15. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over DePue.

The teachings of DePue are discussed in paragraph 9 above.

Regarding instant claims 2-3, DePue further teaches the solubility of the corrosion inhibiting compound is no more than 10^{-3} m/l(col. 3 lines 4-6), which overlaps the solubility of about 5×10^{-1} and about 1×10^{-5} mol/l as recited in instant claim 2 and the solubility of about 5×10^{-2} and about 5×10^{-5} mol/l as recited in instant claim 3. Therefore, a prima facie case of obviousness exists. See MPEP 2144.05. The selection of claimed solubility from the solubility of DePue would have been obvious to one of ordinary skill in the art since DePue teaches the same utilities in its disclosed solubility range.

16. Claims 41-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over DePue in view of Eddinger et al. US 6,074,464(Eddinger).

The teachings of DePue are discussed in paragraphs 9 and 15 above. However, DePue does not explicitly teach the claimed lubricity agent.

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Eddinger teaches the addition of lubricant such as graphite into the phosphate conversion coating(abstract, col. 7 lines 27-36).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated the lubricant such as graphite into the corrosion inhibiting compound of DePue in order to improve the lubricity of the coating layer.

17. Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over DePue in view of Eddinger, and further in view of Gulley US 5,330,588(Gulley).

The teachings of DePue in view of Eddinger are discussed in paragraph 16 above. However, DePue in view of Eddinger do not explicitly teach the claimed lubricity is a soft metal selected from tin, indium, silver or combinations thereof.

Gulley teaches the use of silver in a chemisorption layer on a metal part as a lubricant in order to averts high frictional forces(col. 3 lines 52-58).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated silver as lubricant as taught by Gulley into the corrosion inhibiting compound of DePue in view of Eddinger in order to avert high frictional forces as taught by Gulley.

18. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over DePue in view of Dattilo US 6,291,018 B1(Dattilo).

The teachings of Tadokoro are discussed in paragraphs ¶ and 15 above.

However, Tadokoro does not explicitly teach an agent to improve color-fastness as claimed.

Dattilo teaches a metal surface treatment coating composition comprising color pigments such as carbon black and phthalocyanines(col. 5 lines 34-41).

Therefore, it would have been obvious to one of ordinary skill in the art to have incorporated color pigments such as carbon black and phthalocyanines as taught by Dattilo into the corrosion inhibiting compound of DePue in order to provide decorative effect to the coating formed as taught by Dattilo(col. 5 lines 34-38).

Double Patenting

19. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

20. Claims 1-11, 35-38, 41-47, 51-55 and 137 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13, 37-40, 43-46 and 163 of copending Application No. 10/625,915.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the instant application are directed to a corrosion-inhibiting seal comprising a rare earth element and a valence stabilizer combined to form a rare earth/valence stabilizer complex, whereas the claims of copending Application No. 10/625,915 are directed to a corrosion-inhibiting conversion coating also comprising a rare earth element and a valence stabilizer combined to form a rare earth/valence stabilizer complex. Even though the instant application does not explicitly teach the corrosion-inhibiting seal can be used as a conversion coating, one of ordinary skill in the art would have found it obvious that the corrosion-inhibiting seal of the instant invention can also be used as a conversion coating since the seal of the instant invention and the conversion coating of copending Application No. 10/625,915 comprise the same composition. In addition, the corrosion-inhibiting seal is also a coating.

This is a <u>provisional</u> obviousness-type double patenting rejection since the conflicting claims have not in fact been patented.

21. Claims 1-11, 35-38, 41-47, 51-55 and 137 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5, 8-12, 36-39, 43-45 and 102 of copending Application No. 10/625,885.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the instant application are directed to a corrosion-inhibiting seal comprising a rare earth element and a valence stabilizer combined to form a rare earth/valence stabilizer complex, whereas the claims of

copending Application No. 10/625,885 are directed to a corrosion-inhibiting pigment also comprising a rare earth element and a valence stabilizer combined to form a rare earth/valence stabilizer complex. Even though the instant application does not explicitly teach the corrosion-inhibiting seal can be used as a pigment, one of ordinary skill in the art would have found it obvious that the corrosion-inhibiting seal of the instant invention can also be used as a corrosion-inhibiting pigment since the seal of the instant invention and the pigment of copending Application No. 10/625,885 comprise the same composition. In addition, both a corrosion-inhibiting seal and a corrosion-inhibiting pigment are also a coating material.

This is a <u>provisional</u> obviousness-type double patenting rejection since the conflicting claims have not in fact been patented.

Conclusion

22. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wada et al. US 6,193,815 B1 teaches a corrosion resistant coating composition comprising tetravalent Ce, phosphate with a concentration of 0.01 to 5 g/l, titanium containing substance, aluminum ions, and accelerators such as sodium or potassium salts of nitrous acid, nitric acid, tungstic acid, molybdic acid, permanganic acid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lois Zheng whose telephone number is (571) 272-1248. The examiner can normally be reached on 8:30am - 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LLZ

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